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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATM/	5,412,620	05/1995	Cafarella et al.			
**************************************	5,487,069	01/1996	O'Sullivan et al.			
	5,559,757	09/1996	Catipovic et al.			
	5,577,066	11/1996	Schuchman et al.			
	5,612,978	03/1997	Blanchard et al.			
0000000	5,805,638	09/1998	Liew			
8	5,818,868	10/1998	Gaudenzi et al.			-
000000000000000000000000000000000000000	5,828,658	10/1998	Ottersten et al.			
000000000000000000000000000000000000000	5,930,369	7/1999	Cox et al.		<u> </u>	
0000000	6,047,020	04/2000	Hottinen			-
00000000	6,097,753	08/2000	Ko			
	6,128,276	10/2000	Agee			· · · · · ·
000000	6,137,848	10/2000	Chennakeshu et al.			
000	6,141,393	10/2000	Thomas et al.			
000000000000000000000000000000000000000	6,144,711	11/2000	Raleigh et al.			
000000000000000000000000000000000000000	6,181,714	01/2001	Isaksson et al.			
00000000	6,188,717	02/2001	Kaiser et al.			
000	6,219,561	04/2001	Raleigh			
	6,289,005	09/2001	Katz			
000	6,321,066	11/2001	Katz et al.			
000	6,321,082	11/2001	Katz		1	
	6,320,903	11/2001	Isaksson et al.			
0000	6,359,926	03/2002	Isaksson et al.			
V	6,359,938	03/2002	Keevill et al.			
ATM/	6,363,128	03/2002	Isaksson et al.			

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ATM/	6,366,554	04/2002	Isaksson et al.			
) No.	6,377,632	04/2002	Paulraj et al.			
	6,392,595	05/2002	Katz et al.			
	6,396,801	05/2002	Upton et al.			
00000000	6,438,174	08/2002	Isaksson et al.			
00000	6,445,342	09/2002	Thomas et al.			
00000000	6,456,649	09/2002	Isaksson et al.			
	6,466,629	10/2002	Isaksson et al.			
00000000	6,473,449	10/2002	Cafarella et al.			
00000000	6,473,453	10/2002	Wilkinson			
00000000	6,493,395	12/2002	Isaksson et al.			
	6,505,053	01/2003	Winters et al.		·····	
***************************************	6,512,737	01/2003	Agee			
	6,538,986	03/2003	Isaksson et al.]		
	6,553,012	04/2003	Katz			
	6,611,855	08/2003	Hellberg et al.			77-1,-
20000000	6,618,431	09/2003	Lee			
8	6,643,526	11/2003	Katz			
	6,658,619	12/2003	Chen			
	6,680,969	01/2004	Molnar et al.			
***************************************	6,662,024	12/2003	Walton et al.		1	
500000	6,671,334	12/2003	Kuntz et al.			
	6,674,795	01/2004	Liu et al.			
	6,684,065	01/2004	Bult et al.			,
V	6,693,953	02/2004	Cox et al.			
ATM/	6,700,919	03/2004	Papasakellarious		1	· · · · · · · · · · · · · · · · · · ·

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ATM/	6,724,743	04/2004	Pigeonnat			
35555	6,729,929	05/2004	Sayers et al.			
0000	6,744,320	06/2004	Nguyen et al.		<u> </u>	
000000000000000000000000000000000000000	6,745,352	06/2004	Cheng			
	2002/0136158	09/2002	Frank			
	2002/145989	10/2002	De Parthapratim et al.	1		
000000000	2003/0026201	02/2003	Arnesen			
0000	2003/0035491	02/2003	Walton et al.		1	
000000000000000000000000000000000000000	2003/0043732	03/2003	Walton et al.			•
00000000	2003/0043767	03/2003	Pan et al.			
	2003/0043887	03/2003	Hudson			
	2003/0043925	03/2003	Stopler et al.			
	2003/0048856	03/2003	Ketchum et al.			
	2003/0058952	03/2003	Webster et al.			
	2003/0063557	04/2003	Mottier			
	2003/0072291	04/2003	Brunel			7.7.
	2003/0076908	04/2003	Huang et al.			
	2003/0076900	04/2003	Magee et al.			
	2003/0081781	05/2003	Jensen et al.			
000	2003/0086366	05/2003	Branlund et al.			
8000	2003/0099216	05/2003	Nilsson et al.			
000000000000000000000000000000000000000	2003/0103584	06/2003	Bjerke et al.			
000000000000000000000000000000000000000	2003/0108117	06/2003	Ketchum et al.			
700000000000000000000000000000000000000	2003/0112880	06/2003	Walton et al.			
V	2003/0123384	07/2003	Agee	1		
ATM/	2003/0125040	07/2003	Walton et al.			

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JATM/	2003/0128658	07/2003	Walton et al.			
88	2003/0129984	07/2003	Dent			
	2003/0133403	07/2003	Castelain et al.			
	2003/0147655	08/2003	Shattil			,
	2003/0152021	08/2003	Wang et al.			
	2003/0165131	09/2003	Liang et al.			
	2003/0185310	10/2003	Ketchum et al.			
	2003/0210752	11/2003	Krupka			
	2003/0215007	11/2003	Mottier			
	2003/0216154	11/2003	Mennenga et al.			
	2003/0227866	12/2003	Yamaguchi			
	2003/0235255	12/2003	Ketchum et al.			
	2004/0032354	02/2004	Knobel et al.			
	2004/0032918	2/2004	Shor et al.			
	2004/0052236	03/2004	Hwang et al.			
	2004/0086027	05/2004	Shattil			
	2004/0086035	05/2004	Upton et al.			
	2004/0087275	05/2004	Sugar et al.			
	2004/0095907	05/2004	Agee et al.			
	2004/0100897	05/2004	Shattil			
	2004/0101046	05/2004	Yang et al.			
	2004/0116077	06/2004	Lee et al.			
	2004/0120274	06/2004	Petre et al.			
	2004/0120424	06/2004	Roberts			
V	2004/0136399	07/2004	Roberts			
ATM/	2004/0141548	07/2004	Shattil			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING APPR	DATE IF
JATM/	2004/0142663	07/2004	Roberts				
JATM/	2004/0146024	07/2004	Li et al.				
IATM/	2004/0240595	12/2004	Raphaeli				
		FOREIGN PATE	NT DOCUMENTS				
EXAMINER INITIAL						TRAN	SLATION
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
ATM/	0766468	04/1997	EP				
	1017183	07/2000	EP				
	1047209	10/2000	EP				
	1063780	12/2000	EP				
	1119146	07/2001	EP				
*	~4439682	10/2001	EP1139623				
	1175022	01/2002	EP				
	1255387	11/2002	EP				
	1289182	03/2003	EP				
000	1300999	04/2003	EP				
000	1303094	04/2003	EP				
0000000	1357693	10/2003	EP				
000000000000000000000000000000000000000	1365554	11/2003	EP				
0000000	1379020	01/2004	EP				
200000000000000000000000000000000000000	1411693	04/2004	EP				
*	1992-0009249	05/1992	KR			X**	
*	1998-702348	07/1998	KR			X**	-
V ·	20000027178	05/2000	KR			X**	
ATM/ *	2003-0034260	05/2003	KR			X**	

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EXAMINER INITIAL						TRAN	SLATION
INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
JATM/	95/22859	08/1995	WO				
000000000000000000000000000000000000000	95/27349	10/1995	WO				
000	96/22638	07/1996	WO				
000000000000000000000000000000000000000	97/34421	09/1997	WO				
000000000000000000000000000000000000000	97/35384	09/1997	WO				
000000000	97/48192	12/1997	WO		·-	·	Χ
000000000000000000000000000000000000000	98/09395	03/1998	WO				
000	98/10545	03/1998	WO				
	98/10549	03/1998	WO				
	98/10550	03/1998	WO				
000000000000000000000000000000000000000	98/10552	03/1998	WO				
000000000000000000000000000000000000000	98/10553	03/1998	WO				
000	98/10554	03/1998	WO				
	98/10555	03/1998	WO				
000	98/18272	04/1998	WO				
000000000000000000000000000000000000000	98/36596	08/1998	WO				
3	98/36598	08/1998	WO				
000000000000000000000000000000000000000	98/36599	08/1998	WO				
0000	98/37638	08/1998	WO				
	99/49602	09/1999	WO				
	99/62280	12/1999	WO				
	00/11823	03/2000	WO				
	00/52872	09/2000	WO				
\mathbf{V}	01/10065	02/2001	WO				
ATM/	01/33761	05/2001	WO				

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EXAMINER INITIAL						TRANS	SLATION
INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
ATM/	01/33791	05/2001	WO				
жине	01/47202	06/2001	WO				
000000000	01/47203	06/2001	WO				Х
	01/53932	07/2001	WO				
00000000	01/54300	07/2001	wo				
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	02/29977	04/2002	WO				·····
700000000	02/054601	07/2002	WO				
000000000000000000000000000000000000000	02/054537	07/2001	WO				
	02/061962	08/2002	WO				·
	02/067527	08/2002	WO				
	02/073937	09/2002	WO				
	02/080483	10/2002	WO				-
	WQ/082683	10/2002		200000000000000000000000000000000000000	000000000000000000000000000000000000000		00000000000
	02/082683	10/2002	WO				
	02/093779	11/2002	WO				
000000	02/093784	11/2002	WO				
	02/093819	11/2002	WO				
	03/005291	01/2003	WO				
***************************************	03/010898	02/2003	WO				
	03/015292	02/2003	WO				
	03/026237	03/2003	WO				
	03/028270	04/2003	WO				
\mathbf{V}	03/044983	05/2003	WO				
JATM/	03/081823	10/2003	WO				

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INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
ATM/	03/084092	10/2003	WO					17
	03/092212	11/2003	WO					17
	2004/002047	12/2003	WO					17
	2004/003743	01/2004	WO					17
	2004/008704	01/2004	WO					18
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	2004/023704	03/2004	WO					18
	2004/032347	04/2004	WO					18
	2004/036345	04/2004	WO					18
	2004/038984	05/2004	WO					18
V	2004/059935	07/2004	WO					18
ATM/	2004/064298	07/2004	WO					18
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*	BENVENUTO, "Joint Detection with Low Computational Complexity for Hybrid TD-CDMA Systems," VTC 1999, Fall IEEE VS 50th Vehicular Technology Conference, Volume 1, September 19-22, 1999, vol.1, pp. 618-622.							18
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	GOLUB ET AL., "Matrix Cor	nputations," 3 rd E	dition, The Johns Hopkins 201-202, (1996).	University Pre	ess, Baltim	ore, M	D, pp.	19
GRAY, "Toeplitz and Circulant Matrices: A Review," available at http://ee.stanford.edu/~gray/toeplitz.pdf							19	

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	SINN ET AL., "Efficient Data Detection Algorithms in Single and Multi-Carrier Systems Without the Necessity of a Guard Period," page 2739, left-hand column, figure 2.
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***************************************	VOLLMER ET AL., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 8, August 2001, pp. 1461-1475.
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